

Tilak Maharashtra Vidyapeeth
Master Of Computer Applications(MCA)
Course Structure – 2023-2024

Semester I

Subject Code	Subject Name	Category of Sub.	External Marks	Internal Marks	Marks	Credits
MCA-100-22	Discrete mathematics	Core	60	40	100	4
MCA-101-22	Advanced C And Data structures	Core	60	40	100	4
MCA-102-22	Linux & Shell programming	Core	60	40	100	4
MCA-103-22	Software Engineering & Testing	Core	60	40	100	4
MCA-104-22	Soft skill development	AECC	30	20	50	2
MCA-105-22	LAB- ADV. C and DS	DSEC	30	20	50	2
MCA-106-22	LAB- Linux & Shell programming	DSEC	30	20	50	2
Total					550	22

Semester II

Subject Code	Subject Name	External Marks	Internal Marks	Category of Sub.	Credits	Marks
MCA-200-22 MCA-201-22	Principles & Practices of management (PPM) OR Green Computing	30	20	Allied	2	50
MCA-202-22	Advanced DBMS	60	40	Core	4	100
MCA-203-22	Object oriented programming using C++	60	40	Core	4	100
MCA-204-22 MCA-205-22	Current trends in IT(CTIT) OR Digital Marketing	60	40	Elective	4	100
MCA-206-22	Advanced Computer Network	60	40	Core	4	100
MCA-207-22	LAB - Advanced DBMS	30	20	DSEC	2	50
MCA-208-22	LAB - C++	30	20	DSEC	2	50
Total					22	550

** CTIT – Introduction to IoT + Cyber Security + Blockchain Technology

Semester III

Subject Code	Subject Name	External Marks	Internal Marks	Category of Sub.	Credits	Marks
MCA-300-22	Data mining & KDD	60	40	Core	4	100
MCA-301-22 OR MCA-302-22	Python programming OR Asp.Net	60	40	Elective	4	100
MCA-303-22 OR MCA-304-22	Web applications using Java OR Mobile Application Development	60	40	Elective	4	100
MCA-305-22	Research methodology	30	20	GEC	2	50
MCA-306-22	Data analytics	60	40	Core	4	100
MCA-307-22 OR MCA-308-22	Lab- Python programming OR Lab - Asp.Net	30	20	DSEC	2	50
MCA-30922 OR MCA-310-22	Lab - Web applications using Java OR Lab - Android programming	30	20	DSEC	2	50
Total					22	550

Semester IV

Subject code	Subject Name	External Marks	Internal Marks	Category of Sub	Credits	Marks
MCA-400-22	Project	200	100	Core	12	300
MCA-401-22	Cloud Computing	60	40	Core	4	100
MCA-402-22	Lokmanya Tilak – Maker of modern India		50	GEC	2	50
MCA-403-22	LAB-Cloud Computing	30	20	DSEC	2	50
MCA-404-22	IoT (MOOC)		50	SEC	2	50
MCA-405-22	OR Block chain Technology (MOOC)					
Total					22	550

**** Online MOOC Course – IoT/ Block chain Technology**